A NATIONAL BUREAU WHICH RENDERS GREAT PRACTICAL SERVICE.

ETS ORGANIZATION AND HISTORY-METHODS AND PERSONNEL-ONCE UNDER THE MANAGE-MENT OF THE WAR DEPARTMENT-NOW

CONDUCTED BY CIVILIANS-THE

PRESENT CHIEF.

One of the most important discoveries ever made in regard to the weather was Benjamin Franklin's, that a northeasterly storm came from the southwest. Two other Americans carly in the present century helped to develop the theory that a storm is a system of winds, blowing spirally inward into a large, approximately circular region where the barometer reads lower than elsewhere. The work of these two men, Redfield and Espy, was handsomely supplemented by the researches of their com-patriots, Blodget and Maury, and by Reld, Piddington, Dove and Buys Ballot, foreign scientists.

It was also discovered that although the storms of certain seasons and localities were more intense than those of other times and places, they all had a movement in accordance with laws, and could therefore be made the



WILLIS L. MOORE. Chief of the United States Weather Bureau.

obtained promptly enough from the part of the country where they first showed themselves. Not until the electric telegraph came into existence, however, was it possible to collect own localities. Up to that time no forecasts simultaneous reports of the state of the weather at widely separated points and properly digest the central office in Washington. It had been

War Professor Henry, of the Smithsonian In- man who was on the spot an advantage stitution, in Washington, endeavored to have the business of observation and forecasting undertaken by the Federal Government, but without success. In 1870, however, Congress author- casts for their own immediate neighborhoods ized the establishment of such a service, and intrusted it to the War Department. At that time it was privately known that Colonel Albert J. Myer, who was at the head of the Signal Corps of the Army, was anxious to attempt the organization and conduct of the work, and he was therefore authorized by the Grant Administration to do so,

Colonel Myer, who just before his death in just four years.

See was promoted to the rank of brigadier.

Wills L. Moure, who has been at the head 1880 was promoted to the rank of brigadiergeneral, was not a scientific man himself, but and he made a success of the Bureau from the very outset. To perform the essential and criti-cal task of making the daily forecasts he selected Cieveland Abbe, a well-educated astronomer and meteorologist, who had for months Probabilities."

A special school was started near Washing ton at that time for the half-dozen or more lieutenants detached from the Army and assigned to duty in the Signal Corps. Professor Abbe delivered lectures there, and so did other civilian meteorologists. Professor Elias Loomis, of Yale, and other scientists were employed by General Myer to examine the reports received at the Bureau for several years, and to deduce therefrom the general laws of storms and other phenomena (like cold waves), which it was desirable to watch and predict. Professor William Ferrel, of the Coast and Geodetic Survey, was one of the experts called into the service of the Bureau either as lecturers or investigators. The success of the new undertaking was largely due to the sagacity and tact with which General Myer enlisted in his service the most competent American meteorologists of the day.

The men who were assigned to the duty of making weather observations at the various stations were also required to take a special course of training at the Government school at Fort Myer, and they were appointed sergeants in the Army. They were instructed in the ase and care of the barometer, thermometer,

FORECASTING THE WEATHER, rain gauge and instruments for measuring the humidity of the air and the velocity of the wind. They were also initiated into the art of telegraphing, so that they could transmit reports over the few wires that belonged exclusively to the Signal Corps. Most of the reports, though, were sent over the ordinary commercial lines.

General William B. Hazen, who succeeded General Myer in 1881, was an excellent executive, and did much to extend the usefulness of weather service. He was particularly friendly to the organization of State weather services, to work in co-operation with his office.

General Adolphus W. Greely, appointed chief signal officer in 1887, shortly after the death THE OFFICER WHO SUCCEEDS REAR-ADMIRAL of General Hazen, was the first head of this branch of Uncle Sam's business who was at the same time a good military officer and an accomplished scientist. He had been detached from the 5th Cavalry for service in the Signal Corps at the time when the latter undertook meteorological work, and soon exhibited such a mastery of the subject and such other fitness for the command of the Arctic expedition of 1881-84 that to him was intrusted that responsible duty. The Fort Conger party was only one of thirteen that were sent out by the leading civilized nations of the world at that time to make simultaneous observations at different posts within the Arctic circle. All the others got back premptly and without harm. But the experiences of the Greely party were exceptional, owing to the failure of the means at first employed for sending food and bringing the men home. The admirable way in which the young commander acquitted himself in that dreadful emergency excited the admiration of the world. Although his duties are now of a military nature only, his administration of the Signal Corps during the last few months has shown him to be a far-sighted, shrewd and energetic officer.

A movement which had been in progress for several years for the transfer of the weather service of the Government from the War Department to the Department of Agriculture culminated July 1, 1891. "Uncle Jerry" Rusk was then looking after the farming interests of the Nation. At his suggestion-or, possibly, that of Assistant Secretary Willetts-the Weather Bureau, as a civilian institution, was first committed to Professor Mark W. Harrington, who at that time was editor of a meteorological monthly, and occupied the chair of astronomy and mathematics at Ann Arbor, Mich. Professor Harrington performed his duties to the satisfaction of the Harrison Administration, of the general public and of the scientific element in the country which had wanted the transfer made.

One of the most notable innovations of this subject of prediction, if information were only title "sergeant," formerly borne by the observers of the Bureau. This was soon followed by an order authorizing a number of the observers to make predictions of the weather for their had been permitted aside from those issued from noticed, however, that a familiarity with local For nearly twenty years prior to the Civil peculiarities of the weather sometimes gave a a man hundreds of miles away, though the latter was better educated. Those observers who were empowered to issue forewere called "local forecast officials."

When the Cleveland Administration came in in 1803 efforts were made to oust Professor Harrington, ostensibly for mismanagement of his office. But he fought Secretary Morton so cleverly and bravely that for a time the effort was abandened. Eventually, though, he was dismissed by the President, after having served

the Weather Bureau since July 1, 1895, is he had rare executive ability and enthusiasm, now forty-three years old. More than twenty years ago he entered the Fort Myer school, and was graduated the second man in a class of thirty men. For about sixteen years he was employed at Washington, and in that period been making predictions at Cincinnati based was sent to Minneapolis, and soon became the the best local forecasters for a \$2,500 professorship, the participants to offer escays on practical forecasting, the Milwaukee man made altogether the best showing and carried off the prize. For a year or so before his appointment as Chief of the Bureau he was stationed in Chicago, and made another phenomenal record in predicting cold waves. Since he took charge in Washington be has done a number of progressive things to improve the service, notably in the way of organizing observations with kites in the upper air.

THE CHURCH'S EASTERN QUESTION.

From The Church Review.

The Eastern question of the Church is a far brighter one than "the Eastern question" of the State. It aims at the healing up of the schism between Eastern and Western Christendom which has weakened the Church for a thousand years—i. e., since the days of Photius. The real fons et origo mail through all these ages has been mainly, as some Eastern Bishops have said, the pride of the Papacy. The Bishop of Rome has asserted an authority over the prelates and patriarchs of the Eastern Church which for one thousand years they have generally refused to accept or to recognize. Nor have recent Popes been more really conciliating than their predecessors. Leo XIII even has provided the character of a possione President, which is decidedly better than being a king.

ANOTHER SYNDICATE.

From The Baston Transcript.

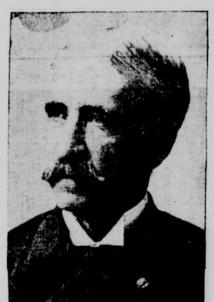
And now comes a story about a syndicate that has captured Venetian palaces, and it is said that tourists to Venice who have secured nice, narrow the control of the papacy. The Bishop of Rome has asserted an authority over the prelimination of the Eastern Church which for one thousand years they have generally refused to accept or to recognize. Nor have recent Popes been more really conciliating than their predecessors. Leo XIII even has

withdrawn none of the pretensions of the mediaval Popes, and Plus IX added to them. We need not wonder, then, that the Greek and Russian prelates maintain their old position of protest, the position handed down to them from their spiritual ancestors. If the Orthodox Eastern Church maintained her independence through the Middle Ages and the terrible period of the fall of the Byzantine Empire, we should hardly expect her to submit now when Russia has become one of the greatest Powers in the world, and when the number of the baptized and communicants of the Holy Orthodox Eastern Church is greater (as it is now) than in any former period in history—probably hardly less than a hundred millions of baptized adherents. herents.

CAPTAIN JOHN R. BARTLETT.

ERBEN.

Captain John R. Bartlett, United States Navy. who was detailed a week ago to succeed Rear-Aumiral Henry Erben as president of the Auxilfary Naval Board, with headquarters at Washington, is an officer who is popular in the entire Navy, and has seen more than the average sea service of line officers. During his entire service on the active list for thirty-eight years he has seen duty in almost every branch of the Navy. He was born in New-York in 1843, and was appointed a midshipman from Rhode Island on November 25, 1859, and was sent to the Naval Academy at once. He remained there until the beginning of the Civil War, and then, upon his own application, got duty on the steam warship



CAPTAIN JOHN R. BARTLETT. Who succeeds Rear-Admiral Erben as president

Mississippi, West Guif Blockading Squadron. About a year later he was transferred to the Brooklyn, and was at the bombardment and passage of Forts Jackson and St. Philip, Chalmette Batteries and the capture of New-Orleans. He was also in the attack on Vicksburg. in June, 1862.

On September 8, 1863, he was promoted to ensign, and on February 22, 1864, was commissioned as lieutenant, when he was ordered to the steam warship Susquehanna in the North Atlantic Blockading Squadron. On this vessel he was at the bombardment of Fort Fisher, in December, 1864, and was one of the leaders of the assaulting party at the capture of that fort in January, 1865, when his conduct excited favorable comment. He was promoted to Beutenant-commander on July 25, 1866, and continued on sea duty until early in 1867, when he was ordered to the Naval Academy as one of the instructors. In 1860 he went on a special cruise on the frigate Sabine, after which he was ordered to the Tehuantepec and Nicaragua Surveying Expedition, upon which he served nearly two years. Following this he was detailed to special duty in the Ordnance Department, Boston, Masa; Hydrographic Office, Washington, showed much zeal and intelligence. In 1890 he and Bureau of Equipment at Washington; later he was in charge of the Hydrographic Bureau From The Cleveland Plain Dealer, on telegrams received at that point. Professor
Abbe did all of the work of forecasting for the
first few years, although General Myer got the
transferred to Milwaukee, where he made surtransferred to duty from then until May, 1893, when he was ordered to the command of the Atlanta. His promotion to commander was on April 25, 1877, and to captain July 1, 1892. He was put on the retired list on July 12, 1897. In general appearance and carriage he resembles Admirals Ramsey and Dewey, and is one who may be classed as a "born military man and leader."

ADVICE TO THE QUEEN REGENT.

From The St. Paul Pioneer Press.

The Queen of Spain is said to be in despair. Let her emigrate to the United States. We will treat her kindly, admit her boy to the best public schools in the world and give him a chance to grow up and be the father of a possible President, which is decidedly better than being a king.

INSURANCE IN ICELAND

AN INTERESTING DEVELOPMENT OF THE SYSTEM AT AN EARLY PERIOD.

From Chambe's's Journal.

From Chambe's's Journal.

Centuries before the wise citizens of London recognized the value of fire insurance there existed a most inter-sting form of it, and that not in any of the great commercial nations of the Middle Ages, but in a remote island of the Atlantic—in Iceland. This fact, remarkable as it is in itself, will not seem so surprising to those who are acquainted with the ancient one dition of that country, which has for seven hundred years played but a small part in European history. Its first colonists, in the end of the ninth and beginning of the tent cen European history. Its first colonists, in the and of the ninth and beginning of the tenth conturies, were among the most enterprising of Norway's sons; and for the next three centuries their new home rivalled the mother country in most respects, and far excelled it in mental activity. The old toetry of Norway aied out about the year 1000 A. D. and four that date, so long as there were skalds at the court of the Norwegian kings, they were less landers. At the same time they were careful that date, so long as there were skalds at the court of the Norwegian kings, they were lessanders. At the same time they were careful farmers, daring seamen and enterprising that ers. They traded regularly with all the neighboring countries, and thought little of an overland journey to Constantinople, where many of them served in the bodyguard of the Byzantine Emperor. At home, next to the necessary care of their herds and flecks they were above all devoted to poetry, history and law. To be skilled in the latter was a sure the to respect at a time when law books were sill unknown, and codes were carried in the head of the "Lawman," or declared by the "Lawspeaker," at the meetings of the Aithing, a yearly assembly. In the thirteenth century these laws of use and wont came to be written down, not officially, it would seem, as happened in other countries, but by persons interested in legal studies, and they are now preserved in a collection commonly known as Gragas, or gray-goose (a name of doubtful origin, which is used as a general name for the laws of leeland prior to its union with Norway in 120. It is in this collection of laws that the interesting item of compensation for loss by far occurs, a section which is quoted by the edite of an Icelandic journal of last year, in thirst of a series of articles on the ancient civil and the subject, and uses the quotation as a text point out to his countrymen the superior far sight of their ancestors in this respect. The modern Icelander has not yet realized the value of insurance, as shown by the fact that see point out to his countrymen the superior fas-sight of their ancestors in this respect. The modern Icelander has not yet realized the value of insurance, as shown by the fact that as of the foremost yeomen in the country had he farm burned down three times in succession without its being insured. It was otherwise to the old days, as Dr. Valtyr points out. In the time of the old republic, the golden age of leand, every yeoman-farmer was by law es-pelled to be a member of a mutual insuran-society. The method by which compensant for loss of fire was made is thus explained; Gra-gas, and is a striking proof of the the

for loss of are was made is true explained; Grá-gás, and is a striking proof of the the oughly practical views of the old icelanders. "There are three houses in every man's dwe, ing for which compensation may be obtained; event of their being burned down." (In islandic dwellings each room was a separate builting, and so is called a "house.") "One is to landic dwellings each room was a separate building, and so is called a "house.") "One is the women's sitting-room, another the common string-room, and the third a pantry where the women prepare the food. If a man has both sitting-room and a hall, then at the spring assembly he shall choose whether he will rathe have the sitting-room or the hall insured, if there is a church or chapel on any man's farther that is the fourth house liable for expensation, where it exists. If any of the houses aforementioned is burned down, to owner shall summon five of his neighbors, sight them to estimate the damage that has been owner shall summen five of his neighbors, my get them to estimate the damage that has begone. They shall estimate the damage due to the house itself, and also that done used to the house itself, and also that done used to the house itself, and also that done used to the house itself, and also that done used to the house itself, and also that done used to have a summer requires for daily use shall be recked for compensation. If a church is burned, the shall be recked along with it for compensation all the hangings, the choir, and the best bell that has been destroyed, if there we more than one, and all the furniture required for daily use; the same thing shall be done the case of chaptels."

When the damage had been valued by meighbors, as above provided, one half of the loss had to be horne by the yeoman himseless.

When the damage had been valued by a neighbors, as above provided, one half of a loss had to be borne by the yeoman himsel, and the other half was made good by all to other yeomen in the district. From each if these a certain amount was levied in propertion to the value of his property, and if mover not paid within a specified time it could be selzed by law. At the same time it we provided that no one could be called upon a pay as his share more than I per cent of by whole property, and it was not compulsory a compensate the same person for loss by a more than three times.

OL' GIN'RAL WHEELER.

Or Gin'ral Wheeler, he Clum up a pesky tre Th' inemy fer to see.

An' high thar on a lim'. Thet warn't too high for him, He roosted stern and grim.

He sized things all aroun', He eyed th' Spanish town, An' then slidded down.

Thar ain't a thing thet's slow About of Fighting Joe; He's jist checkfull o' go.

An' of they down him, why, They'll git up early, aye, An' git up pesky high!

A SPANISH PRISONER.

From The Boston Transcript. High o'er his head the starry dag is floating. But on his breast he wears the saffron gold: Our prison bars securely close around him. Migo, friend, the name we have Though

But never once he seems to hear the cheering That greets the story of a victory wen; And cares no whit that we are all rejoicing When news is brought us of a brave done.

He sits apart and sings, with sweetest cadens.
The songs learned long ago in sunny Spain.
We cannot chide him, for we love the rebell Our gold canary from the Spanish Main.